



Analytical Abstracts

Index to Volume 33 1977

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JOURNALS

Abbreviations of the names of journals as used in the abstracts are given in the following list of main sources that are regularly scanned. Journals that yield only an occasional item of analytical interest are omitted from the list, as are Russian journals containing papers of which the translated titles have been published through the medium of *Referativnyi Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which the journals are published.

<i>Acta Chem. Scand., Ser. A, B</i>	..	Acta Chemica Scandinavica [Eng., Fr., Ger.]
<i>Acta Chim. Acad. Sci. Hung.</i>	..	Acta Chimica Academiae Scientiarum Hungaricae [Eng., Fr., Ger., Russ.]
<i>Acta Pharm. Hung.</i>	..	Acta Pharmaceutica Hungarica [Hung.]
<i>Acta Pharm. Jugosl.</i>	..	Acta Pharmaceutica Jugoslavica [Serbo-Croat]
<i>Acta Pharm. Suec.</i>	..	Acta Pharmaceutica Suecica [Eng.]
<i>Acta Pol. Pharm.</i>	..	Acta Poloniae Pharmaceutica [Pol.]
<i>Actual. Chim.</i>	..	L'Actualité Chimique [Fr.]
<i>Agric. Biol. Chem.</i>	..	Agricultural and Biological Chemistry [Eng.]
<i>AMDEL Bull.</i>	..	AMDEL Bulletin (Australian Mineral Development Laboratories) [Eng.]
<i>Anal. Biochem.</i>	..	Analytical Biochemistry [Eng.]
<i>Anal. Chem.</i>	..	Analytical Chemistry [Eng.]
<i>Anal. Chim. Acta</i>	..	Analytica Chimica Acta [Eng., Fr., Ger.]
<i>Anal. Lett.</i>	..	Analytical Letters [Eng., Fr., Ger.]
<i>Analusis</i>	..	Analusis [Eng., Fr.]
<i>Analyst (London)</i>	..	Analyst [Eng.]
<i>An. Bromatol.</i>	..	Anales de Bromatologia [Span.]
<i>Angew. Chem., Int. Ed. Engl.</i>	..	Angewandte Chemie, International Edition in English [Eng.]
<i>Ann. Chim. (Paris)</i>	..	Annales de Chimie [Fr.]
<i>Ann. Chim. (Rome)</i>	..	Annali di Chimica [Eng., Ital.]
<i>Ann. Falsif. Expert. Chim.</i>	..	Annales de Falsification et de l'Expertise Chimique [Fr.]
<i>Ann. Ist. Super. Sanita</i>	..	Annali dell'Istituto Superiore di Sanita [Eng., Fr., Ital.]
<i>Ann. Pharm. Fr.</i>	..	Annales Pharmaceutiques Françaises [Fr.]
<i>An. Quim.</i>	..	Anales de Quimica [Eng., Span.]
<i>Antibiotiki (Moscow)</i>	..	Antibiotiki. Moscow [Russ.]
<i>Appl. Opt.</i>	..	Applied Optics [Eng., Fr., Ger., Russ.]
<i>Appl. Spectrosc.</i>	..	Applied Spectroscopy [Eng.]
<i>Arch. Eisenhüttenwes.</i>	..	Archiv für das Eisenhüttenwesen [Ger.]
<i>Arch. Pharm. (Weinheim, Ger.)</i>	..	Archiv der Pharmazie [Ger.]
<i>Arm. Khim. Zh.</i>	..	Armianskii Khimicheskii Zhurnal [Russ.]
<i>Arzneim.-Forsch.</i>	..	Arzneimittel-Forschung [Eng., Ger.]
<i>At. Absorpt. Newsl.</i>	..	Atomic Absorption Newsletter [Eng.]
<i>At. Energ.</i>	..	Atomnaya Energiya [Russ.]
<i>Aust. J. Agric. Res.</i>	..	Australian Journal of Agricultural Research [Eng.]
<i>Aust. J. Chem.</i>	..	Australian Journal of Chemistry [Eng.]
<i>Azerb. Khim. Zh.</i>	..	Azerbaidzhanskii Khimicheskii Zhurnal [Azerb., Russ.]
<i>BCRA Rev.</i>	..	BCRA Review [Eng.]
<i>Beitr. Tabakforsch.</i>	..	Beiträge zur Tabakforschung [Eng., Ger.]
<i>Biochem. J.</i>	..	Biochemical Journal [Eng.]
<i>Biochem. Med.</i>	..	Biochemical Medicine [Eng.]
<i>Biochim. Biophys. Acta</i>	..	Biochimica et Biophysica Acta [Eng., Fr., Ger.]
<i>Biochimie</i>	..	Biochimie [Eng., Fr.]
<i>Biokhimiya</i>	..	Biokhimiya [Russ.]
<i>Biomed. Mass Spectrom.</i>	..	Biomedical Mass Spectrometry [Eng.]
<i>Bios (Nancy)</i>	..	Bios. Nancy [Fr.]
<i>Boll. Soc. Ital. Biol. Sper.</i>	..	Bollettino della Società Italiana di Biologia Sperimentale [Ital.]
<i>Brauwissenschaft</i>	..	Brauwissenschaft [Ger.]
<i>Br. Med. J.</i>	..	British Medical Journal [Eng.]
<i>Bull. Acad. Pol. Sci., Ser. Sci. Chim.</i>	..	Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Chimiques [Eng., Fr., Ger.]
<i>Bull. Chem. Soc. Jpn.</i>	..	Bulletin of the Chemical Society of Japan [Eng., Ger.]
<i>Bull. Environ. Contam. Toxicol.</i>	..	Bulletin of Environmental Contamination and Toxicology [Eng.]
<i>Bull. Nare.</i>	..	Bulletin on Narcotics [Eng., Fr., Span.]
<i>Bull. Soc. Chim. Fr.</i>	..	Bulletin de la Société Chimique de France [Fr.]
<i>Bunseki Kagaku</i>	..	Bunseki Kagaku (Japan Analyst) [Jap.]
<i>Can. J. Biochem.</i>	..	Canadian Journal of Biochemistry [Eng., Fr.]
<i>Can. J. Chem.</i>	..	Canadian Journal of Chemistry [Eng., Fr.]
<i>Can. J. Pharm. Sci.</i>	..	Canadian Journal of Pharmaceutical Sciences [Eng., Fr.]
<i>Can. J. Spectrosc.</i>	..	Canadian Journal of Spectroscopy [Eng., Fr.]
<i>Cereal Chem.</i>	..	Cereal Chemistry [Eng.]
<i>Cereal Foods World</i>	..	Cereal Foods World [Eng.]
<i>Cesk. Farm.</i>	..	Ceskoslovenska Farmacie [Czech, Slovak]

<i>Chem. Anal. (Warsaw)</i>	<i>Chemia Analityczna [Eng., Ger., Pol., Russ.]</i>
<i>Chem. Br.</i>	<i>Chemistry in Britain [Eng.]</i>
<i>Chem. Eng. News</i>	<i>Chemical & Engineering News [Eng.]</i>
<i>Chem. Geol.</i>	<i>Chemical Geology [Eng., Fr., Ger.]</i>
<i>Chem. Ind. (London)</i>	<i>Chemistry and Industry [Eng.]</i>
<i>Chem. Lett.</i>	<i>Chemistry Letters [Eng., Fr., Ger., Jap.]</i>
<i>Chem. Listy</i>	<i>Chemicke Listy [Czech]</i>
<i>Chem. Pharm. Bull.</i>	<i>Chemical and Pharmaceutical Bulletin [Eng., Fr., Ger.]</i>
<i>Chem. Prum.</i>	<i>Chemicky Prumysl [Czech]</i>
<i>Chem. Scr.</i>	<i>Chemica Scripta [Eng., Fr., Ger.]</i>
<i>Chem. Soc. Rev.</i>	<i>Chemical Society Reviews [Eng.]</i>
<i>Chem.-Tech. (Heidelberg)</i>	<i>Chemie-Technik [Ger.]</i>
<i>Chem. Tech. (Leipzig)</i>	<i>Chemische Technik [Ger.]</i>
<i>Chem. Ztg.</i>	<i>Chemiker Zeitung [Ger.]</i>
<i>Chem. Zvesti</i>	<i>Chemicke Zvesti [Eng., Fr., Ger., Russ.]</i>
<i>Chimia</i>	<i>Chimia [Eng., Fr., Ger.]</i>
<i>Chromatographia</i>	<i>Chromatographia [Eng., Fr., Ger.]</i>
<i>Clin. Chem. (Winston-Salem, N.C.)</i>	<i>Clinical Chemistry [Eng.]</i>
<i>Clin. Chim. Acta</i>	<i>Clinica Chimica Acta [Eng., Fr., Ger.]</i>
<i>Collect. Czech. Chem. Commun.</i>	<i>Collection of Czechoslovak Chemical Communications [Eng., Fr., Ger., Russ.]</i>
<i>Commun. Soil Sci. Plant Anal.</i>	<i>Communications in Soil Science and Plant Analysis [Eng.]</i>
<i>Crit. Rev. Anal. Chem.</i>	<i>Critical Reviews in Analytical Chemistry [Eng.]</i>
<i>Croat. Chem. Acta</i>	<i>Croatica Chimica Acta [Eng., Fr., Ger., Russ.]</i>
<i>Curr. Sci.</i>	<i>Current Science [Eng.]</i>
<i>Dokl. Akad. Nauk SSSR</i>	<i>Doklady Akademii Nauk SSSR [Russ.]</i>
<i>Dokl. Bolg. Akad. Nauk</i>	<i>Doklady Bolgarskoi Akademii Nauk [Eng., Fr., Ger., Russ.]</i>
<i>Double Liaison - Chim. Peint.</i>	<i>Double Liaison. Chimie des Peintures [Fr.]</i>
<i>Dtsch. Apoth.-Ztg.</i>	<i>Deutsche Apotheker-Zeitung [Ger.]</i>
<i>Dtsch. Lebensm.-Rundsch.</i>	<i>Deutsche Lebensmittel-Rundschau [Ger.]</i>
<i>Eczacilik Bul.</i>	<i>Eczacilik Bulteni [Eng., Turk.]</i>
<i>Educ. Chem.</i>	<i>Education in Chemistry [Eng.]</i>
<i>Eisei Kagaku</i>	<i>Eisei Kagaku (Journal of Hygienic Chemistry) [Jap.]</i>
<i>Environ. Sci. Technol.</i>	<i>Environmental Science and Technology [Eng.]</i>
<i>Erdöl Kohle, Erdgas, Petrochem. Brennst.-Chem.</i>	<i>Erdöl und Kohle, Erdgas, Petrochemie vereinigt mit Brennstoff-Chemie [Eng., Ger.]</i>
<i>Essenze Deriv. Agrum.</i>	<i>Essenze e Derivati Agrumari [Ital.]</i>
<i>Experientia</i>	<i>Experientia [Eng., Fr., Ger.]</i>
<i>Farmaco, Ed. Prat.</i>	<i>Farmaco, Edizione Pratica [Eng., Fr., Ital.]</i>
<i>Farmatsiya (Moscow)</i>	<i>Farmatsiya. Moscow [Russ.]</i>
<i>Farm. Obz.</i>	<i>Farmaceuticky Obzor [Czech, Slovak]</i>
<i>Farm. Pol.</i>	<i>Farmacja Polska [Pol.]</i>
<i>Faserforsch. Textiltech.</i>	<i>Faserforschung und Textiltechnik—Zeitschrift für Polymerforschung [Ger.]</i>
<i>Fert. Technol.</i>	<i>Fertilizer Technology (formerly Technology) [Eng.]</i>
<i>Fette, Seifen, Anstrichm.</i>	<i>Fette, Seifen, Anstrichmittel [Eng., Ger.]</i>
<i>Finn. Chem. Lett.</i>	<i>Finnish Chemical Letters [Eng., Fr., Ger.]</i>
<i>Fleischwirtschaft</i>	<i>Fleischwirtschaft [Eng., Ger.]</i>
<i>Forensic Sci.</i>	<i>Forensic Science [Eng., Fr., Ger.]</i>
<i>Fresenius' Z. Anal. Chem.</i>	<i>Fresenius' Zeitschrift für Analytische Chemie [Eng., Ger.]</i>
<i>GIT Fachz. Lab.</i>	<i>GIT Fachzeitschrift für das Laboratorium [Ger.]</i>
<i>Gordian</i>	<i>Gordian [Eng., Ger.]</i>
<i>Grasas Aceites (Seville)</i>	<i>Grasas y Aceites [Span.]</i>
<i>Helv. Chim. Acta</i>	<i>Helvetica Chimica Acta [Fr., Ger.]</i>
<i>Herba Pol.</i>	<i>Herba Polonica [Pol.]</i>
<i>Hoppe-Seyler's Z. Physiol. Chem.</i>	<i>Hoppe-Seyler's Zeitschrift für Physiologische Chemie [Ger.]</i>
<i>Hua Hsueh Tung Pao</i>	<i>Huaxue Tongbao (Chemistry) [Chin.]</i>
<i>Hutn. Listy</i>	<i>Hutnicke Listy [Czech]</i>
<i>Indian J. Appl. Chem.</i>	<i>Indian Journal of Applied Chemistry [Eng.]</i>
<i>Indian J. Biochem. Biophys.</i>	<i>Indian Journal of Biochemistry & Biophysics [Eng.]</i>
<i>Indian J. Chem., Sect. A, B</i>	<i>Indian Journal of Chemistry [Eng.]</i>
<i>Indian J. Pharm.</i>	<i>Indian Journal of Pharmacy [Eng.]</i>
<i>Indian J. Pure Appl. Phys.</i>	<i>Indian Journal of Pure and Applied Physics [Eng.]</i>
<i>Indian J. Technol.</i>	<i>Indian Journal of Technology [Eng.]</i>
<i>Instrum. Control Syst.</i>	<i>Instruments and Control Systems [Eng.]</i>
<i>Int. Flavours Food Addit.</i>	<i>International Flavours and Food Additives [Eng.]</i>
<i>Int. J. Appl. Radiat. Isot.</i>	<i>International Journal of Applied Radiation and Isotopes [Eng., Fr., Ger., Russ.]</i>
<i>Int. Lab.</i>	<i>International Laboratory [Eng.]</i>
<i>Int. Sugar J.</i>	<i>International Sugar Journal [Eng.]</i>
<i>Isr. J. Chem.</i>	<i>Israel Journal of Chemistry [Eng.]</i>
<i>Ital. J. Biochem.</i>	<i>Italian Journal of Biochemistry [Eng.]</i>
<i>J. Agric. Food Chem.</i>	<i>Journal of Agricultural and Food Chemistry [Eng.]</i>
<i>J. Am. Oil Chem. Soc.</i>	<i>Journal of the American Oil Chemists' Society [Eng.]</i>

<i>J. Am. Water Works Assoc.</i>	..	Journal of the American Water Works Association [Eng.]
<i>J. Appl. Chem. Biotechnol.</i>	..	Journal of Applied Chemistry & Biotechnology [Eng.]
<i>J. Appl. Polym. Sci.</i>	..	Journal of Applied Polymer Science [Eng.]
<i>J. Assoc. Off. Anal. Chem.</i>	..	Journal of the Association of Official Analytical Chemists [Eng.]
<i>J. Assoc. Public Anal.</i>	..	Journal of the Association of Public Analysts [Eng.]
<i>J. Chem. Res.</i>	..	Journal of Chemical Research [Eng., Fr., Ger.]
<i>J. Chem. Soc., Chem. Commun.</i>	..	Journal of the Chemical Society, Chemical Communications [Eng.]
<i>J. Chem. Soc., Perkin Trans. I, II</i>	..	Journal of the Chemical Society, Perkin Transactions I and II [Eng.]
<i>J. Chin. Chem. Soc. (Taipei)</i>	..	Journal of the Chinese Chemical Society. Taipei [Eng.]
<i>J. Chromatogr.</i>	..	Journal of Chromatography [Eng., Fr., Ger.]
<i>J. Chromatogr. Sci.</i>	..	Journal of Chromatographic Science [Eng.]
<i>J. Clin. Chem. Clin. Biochem.</i>	..	Journal of Clinical Chemistry and Clinical Biochemistry [Eng., Ger.]
<i>J. Dairy Sci.</i>	..	Journal of Dairy Science [Eng.]
<i>J. Drug Res.</i>	..	Journal of Drug Research [Eng.]
<i>J. Electroanal. Chem. Interfacial Electrochem.</i>	..	Journal of Electroanalytical Chemistry and Interfacial Electrochemistry [Eng., Fr., Ger.]
<i>J. Electrochem. Soc.</i>	..	Journal of the Electrochemical Society [Eng.]
<i>Jena Rev.</i>	..	Jena Review [Eng.]
<i>J. Environ. Sci. Health, Part A, B</i>	..	Journal of Environmental Science and Health (formerly Environmental Letters) [Eng.]
<i>J. Food Sci.</i>	..	Journal of Food Science [Eng.]
<i>J. Food Sci. Technol.</i>	..	Journal of Food Science and Technology [Eng.]
<i>J., Forensic Sci. Soc.</i>	..	Journal, Forensic Science Society [Eng.]
<i>J. Indian Chem. Soc.</i>	..	Journal of the Indian Chemical Society [Eng.]
<i>J. Inorg. Nucl. Chem.</i>	..	Journal of Inorganic and Nuclear Chemistry [Eng.]
<i>J. Inst. Brew., London</i>	..	Journal of the Institute of Brewing, London [Eng.]
<i>J. Inst. Fuel</i>	..	Journal of the Institute of Fuel [Eng.]
<i>J. Lab. Clin. Med.</i>	..	Journal of Laboratory and Clinical Medicine [Eng.]
<i>J. Labelled Compd. Radiopharm.</i>	..	Journal of Labelled Compounds and Radiopharmaceuticals [Eng., Fr., Ger.]
<i>J. Lipid Res.</i>	..	Journal of Lipid Research [Eng.]
<i>J. Pharm. Pharmacol.</i>	..	Journal of Pharmacy and Pharmacology [Eng.]
<i>J. Pharm. Sci.</i>	..	Journal of Pharmaceutical Sciences [Eng.]
<i>J. Phys. D</i>	..	Journal of Physics D: Applied Physics [Eng.]
<i>J. Phys. E</i>	..	Journal of Physics E: Scientific Instruments [Eng., Fr., Ger.]
<i>J. Prakt. Chem.</i>	..	Journal für Praktische Chemie [Eng., Ger.]
<i>J. Radioanal. Chem.</i>	..	Journal of Radioanalytical Chemistry [Eng., Fr., Ger.]
<i>J. Res. Natl. Bur. Stand., Sect. A</i>	..	Journal of Research of the National Bureau of Standards, Section A: Physics and Chemistry [Eng.]
<i>J. S. Afr. Inst. Min. Metall.</i>	..	Journal of the South African Institute of Mining & Metallurgy [Eng.]
<i>J. Sci. Food Agric.</i>	..	Journal of the Science of Food and Agriculture [Eng.]
<i>J. Sci. Ind. Res.</i>	..	Journal of Scientific and Industrial Research [Eng.]
<i>J. Soc. Leather Technol. Chem.</i>	..	Journal of the Society of Leather Technologists and Chemists [Eng.]
<i>J. Steroid Biochem.</i>	..	Journal of Steroid Biochemistry [Eng., Fr., Ger.]
<i>J. Water Pollut. Control Fed.</i>	..	Journal of the Water Pollution Control Federation [Eng.]
<i>Kautsch. Gummi, Kunstst.</i>	..	Kautschuk und Gummi, Kunststoffe [Ger.]
<i>Khim. Ind. (Sofia)</i>	..	Khimiya i Industriya [Bulg.]
<i>Klin. Wochenschr.</i>	..	Klinische Wochenschrift [Ger.]
<i>Kunststoffe</i>	..	Kunststoffe [Ger.]
<i>Lab. Pract.</i>	..	Laboratory Practice [Eng.]
<i>Lipids</i>	..	Lipids [Eng.]
<i>Magy. Kem. Foly.</i>	..	Magyar Kémiai Folyóirat [Hung.]
<i>Magy. Kem. Lapja</i>	..	Magyar Kémikusok Lapja [Hung.]
<i>Medd. Nor. Farm. Selsk.</i>	..	Meddelelser fra Norsk Farmaceutisk Selskap [Eng.]
<i>Med. Lab. Sci.</i>	..	Medical Laboratory Sciences (formerly Medical Laboratory Technology) [Eng.]
<i>Med., Sci. Law</i>	..	Medicine, Science and the Law [Eng.]
<i>Metall. Ital.</i>	..	Metallurgia Italiana [Ital.]
<i>Metall. Met. Form.</i>	..	Metallurgia and Metal Forming [Eng.]
<i>Microchem. J.</i>	..	Microchemical Journal [Eng.]
<i>Mikrochim. Acta</i>	..	Mikrochimica Acta [Eng., Fr., Ger.]
<i>Mitt. Geb. Lebensmittelunters. Hyg.</i>	..	Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene [Fr., Ger.]
<i>Monatsh. Chem.</i>	..	Monatshäfte für Chemie [Eng., Ger.]
<i>Monatsschr. Brau.</i>	..	Monatsschrift für Brauerei [Ger.]
<i>Nahrung</i>	..	Nahrung [Eng., Ger., Russ.]
<i>Natl. Inst. Metall., Repub. S. Afr., Rep.</i>	..	National Institute of Metallurgy, Republic of South Africa, Report [Eng.]
<i>Nature (London)</i>	..	Nature [Eng.]
<i>Notes Water Res.</i>	..	Notes on Water Research [Eng.]

<i>Nucl. Instrum. Methods</i> .. ..	..	Nuclear Instruments & Methods [Eng., Fr., Ger.]
<i>Period. Polytech., Chem. Eng.</i> .. ..	..	Periodica Polytechnica, Chemical Engineering [Eng., Ger., Russ.]
<i>Pestic. Sci.</i> .. ..	..	Pesticide Science [Eng.]
<i>Pharm. Acta Helv.</i> .. ..	..	Pharmaceutica Acta Helvetica [Eng., Fr., Ger.]
<i>Pharmakon</i> .. ..	..	Pharmakon [Flem., Fr.]
<i>Pharmazie</i> .. ..	..	Pharmazie [Eng., Ger.]
<i>Pharm. Weekbl.</i> .. ..	..	Pharmaceutisch Weekblad [Dutch, Eng., Ger.]
<i>Pol. J. Pharmacol. Pharm.</i> .. ..	..	Polish Journal of Pharmacology and Pharmacy [Eng.]
<i>Powder Technol.</i> .. ..	..	Powder Technology [Eng., Fr.]
<i>Proc. Anal. Div. Chem. Soc.</i> .. ..	..	Proceedings of the Analytical Division of the Chemical Society [Eng.]
<i>Prostaglandins</i> .. ..	..	Prostaglandins [Eng.]
<i>Prum. Potravín</i> .. ..	..	Prumysl Potravín [Czech, Slovak]
<i>Pure Appl. Chem.</i> .. ..	..	Pure and Applied Chemistry [Eng., Fr.]
<i>Pyrethrum Post</i> .. ..	..	Pyrethrum Post [Eng., Fr., Ger.]
<i>Quim. Anal.</i> .. ..	..	Química Analítica [Span.]
<i>Radiochem. Radioanal. Lett.</i> .. ..	..	Radiochemical and Radioanalytical Letters [Eng., Fr., Ger.]
<i>Rev. Asoc. Bioquím. Argent.</i> .. ..	..	Revista de la Asociación Bioquímica Argentina [Span.]
<i>Rev. Chim. (Bucharest)</i> .. ..	..	Revista de Chimie [Rom.]
<i>Rev. Farm. Bioquím. Univ. São Paulo</i> .. ..	..	Revista de Farmácia e Bioquímica da Universidade de São Paulo [Port.]
<i>Rev. Metal. (Madrid)</i> .. ..	..	Revista de Metalurgia [Span.]
<i>Rev. Pol. Acad. Sci.</i> .. ..	..	Review of the Polish Academy of Sciences [Eng.]
<i>Rev. Roum. Biochim.</i> .. ..	..	Revue Roumaine de Biochimie [Eng., Fr., Ger., Russ.]
<i>Rev. Roum. Chim.</i> .. ..	..	Revue Roumaine de Chimie [Eng., Fr., Ger., Russ.]
<i>Rev. Sci. Instrum.</i> .. ..	..	Review of Scientific Instruments [Eng.]
<i>Riechst., Aromen, Kosmet.</i> .. ..	..	Riechstoffe, Aromen, Kosmetica (formerly Riechstoffe, Aromen, Körperpflegemittel) [Ger.]
<i>Riv. Ital. Sostanze Grasse</i> .. ..	..	Rivista Italiana delle Sostanze Grasse [Ital.]
<i>Rocz. Chem.</i> .. ..	..	Roczniki Chemii [Eng., Pol.]
<i>Scand. J. Metall.</i> .. ..	..	Scandinavian Journal of Metallurgy [Eng.]
<i>Sci. Pharm.</i> .. ..	..	Scientia Pharmaceutica [Ger.]
<i>Sci. Tools</i> .. ..	..	Science Tools [Eng.]
<i>Sep. Purif. Methods</i> .. ..	..	Separation and Purification Methods [Eng.]
<i>Sep. Sci.</i> .. ..	..	Separation Science [Eng.]
<i>Spectra 2000</i> .. ..	..	Spectra 2000 [Eng., Fr.]
<i>Spectrochim. Acta, Part A, B</i> .. ..	..	Spectrochimica Acta [Eng., Fr., Ger.]
<i>Spectrosc. Lett.</i> .. ..	..	Spectroscopy Letters [Eng.]
<i>Staub-Reinhold. Luft</i> .. ..	..	Staub-Reinholdung der Luft [Ger.]
<i>Steroids</i> .. ..	..	Steroids [Eng.]
<i>Stud. Univ. Babes-Bolyai, Ser. Chem.</i> .. ..	..	Studia Universitatis Babes-Bolyai, Series Chemia [Eng., Fr., Ger., Rom.]
<i>Swed. J. Agric. Res.</i> .. ..	..	Swedish Journal of Agricultural Research [Eng., Fr., Ger.]
<i>Talanta</i> .. ..	..	Talanta [Eng., Fr., Ger.]
<i>Tappi</i> .. ..	..	Tappi [Eng.]
<i>Tecnica (Lisbon)</i> .. ..	..	Tecnica [Eng., Port.]
<i>Trib. CEBEDEAU</i> .. ..	..	Tribune de CEBEDEAU [Fr.]
<i>Trop. Sci.</i> .. ..	..	Tropical Science [Eng.]
<i>U.K. At. Energy Res. Establ., Rep.</i> .. ..	..	United Kingdom Atomic Energy Research Establishment, Report [Eng.]
<i>Ukr. Khim. Zh. (Russ. Ed.)</i> .. ..	..	Ukrainskii Khimicheskii Zhurnal [Russ.]
<i>UV Spectrom. Group Bull.</i> .. ..	..	UV Spectrometry Group Bulletin [Eng.]
<i>Vestn. Leningr. Univ., Fiz., Khim.</i> .. ..	..	Vestnik Leningradskogo Universiteta, Fizika, Khimiya [Russ.]
<i>Vestn. Mosk. Univ., Khim.</i> .. ..	..	Vestnik Moskovskogo Universiteta, Khimiya [Russ.]
<i>Water Res.</i> .. ..	..	Water Research [Eng.]
<i>Water Sewage Works</i> .. ..	..	Water & Sewage Works [Eng.]
<i>X-Ray Spectrom.</i> .. ..	..	X-Ray Spectrometry [Eng., Fr., Ger.]
<i>Yakugaku Zasshi</i> .. ..	..	Yakugaku Zasshi (Journal of the Pharmaceutical Society of Japan) [Jap.]
<i>Z. Anorg. Allg. Chem.</i> .. ..	..	Zeitschrift für Anorganische und Allgemeine Chemie [Eng., Ger.]
<i>Zavod. Lab.</i> .. ..	..	Zavodskaya Laboratoriya [Russ.]
<i>Z. Chem.</i> .. ..	..	Zeitschrift für Chemie [Ger.]
<i>Zentralbl. Pharm., Pharmakother. Laboratoriumsdiagn.</i> .. ..	..	Zentralblatt für Pharmazie, Pharmakotherapie und Laboratoriumsdiagnostik [Ger.]
<i>Zh. Anal. Khim.</i> .. ..	..	Zhurnal Analiticheskoi Khimii [Russ.]
<i>Zh. Obshch. Khim.</i> .. ..	..	Zhurnal Obshchei Khimii [Russ.]
<i>Zh. Prikl. Khim. (Leningrad)</i> .. ..	..	Zhurnal Prikladnoi Khimii, Leningrad [Russ.]
<i>Z. Lebensm.-Unters. Forsch.</i>	Zeitschrift für Lebensmittel-Untersuchung und -Forschung [Eng., Ger.]

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Abstract Bulletin of the Institute of Paper Chemistry
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Fuel Abstracts and Current Titles
INIS Atomindex
International Sugar Journal
Journal of the Institute of Brewing
Lead Abstracts
Mineralogical Abstracts
Nutrition Abstracts and Reviews
RAPRA Abstracts
World Surface Coatings Abstracts
World Textile Abstracts
Zinc Abstracts

ABBREVIATIONS AND SYMBOLS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

adenosine 5'-monophosphate	. AMP	high-performance liquid chromatography	. h.p.l.c.
adenosine 5'-pyrophosphate	. ADP	infra-red	. i.r.
adenosine 5'-triphosphate	. ATP	insoluble	. insol.
alternating current	. a.c.	ionic strength	. <i>I</i>
approximate, -ly	. approx.	mass spectrometry, -ic	. m.s.
aqueous	. aq.	maxim-um, -a	. max.
atomic-absorption spectrophotometry, -ic	. a.a.s.	molar extinction coefficient	. ϵ
atomic-emission spectrometry, -ic	. a.e.s.	molecular weight	. mol. wt.
atomic-fluorescence spectrometry, -ic	. a.f.s.	neutron-activation analysis	. n.a.a.
atomic number	. <i>Z</i>	nicotinamide-adenine dinucleotide (oxidised form)	. NAD ⁺
attenuated total reflectance	. a.t.r.	nicotinamide-adenine dinucleotide (reduced form)	. NADH
biochemical oxygen demand	. BOD	normal calomel electrode	. n.c.e.
boiling-point	. b.p.	normal hydrogen electrode	. n.h.e.
chemical oxygen demand	. COD	nuclear magnetic resonance	. n.m.r.
coefficient	. coeff.	optical rotation	. α
concentrated	. conc.	optical rotatory dispersion	. o.r.d.
concentration	. concn.	partial pressure (as in, e.g., $p\text{CO}_2$)	. <i>p</i>
crystalline	. } <i>cryst.</i>	poly(tetrafluoroethylene)	. PTFE
crystallised	. }	potential difference	. p.d.
current density	. c.d.	precipitate (as a noun)	. ppt.
density, relative	. <i>d</i>	precipitated	. pptd.
deoxyribonucleic acid	. DNA	precipitation	. pptn.
diameter, inside	. i.d.	preparation	. prep.
diameter, outside	. o.d.	recrystallised	. recryst.
differential thermal analysis	. d.t.a.	refractive index	. n_D^t
dilute (as adjective)	. dil.	relative band speed	. R_F
5-dimethylaminonaphthalene-1-sulphonyl	. dansyl	relative humidity	. r.h.
direct current	. d.c.	ribonucleic acid	. RNA
dissociation constant	. <i>K</i>	saturated (as adjective)	. satd.
electron spin (or paramagnetic) resonance	. e.s.r.	saturated calomel electrode	. s.c.e.
ethylenediaminetetra-acetate	. edta	soluble	. sol.
gas chromatograph-y, -ic	. g.c.	solution	. soln.
gas - liquid chromatograph-y, -ic	. g.l.c.	specific rotation	. $[\alpha]_D^{25}$
gas - solid chromatograph-y, -ic	. g.s.c.	standard temp. and pressure	. s.t.p.
half-wave potential	. $E_{1/2}$	thin-layer chromatograph-y, -ic	. t.l.c.
height equivalent to a theoretical plate	. h.e.t.p.	ultra-violet	. u.v.
		volume	. vol.
		wavelength	. λ
		weight	. wt.

UNITS OF MEASUREMENT

As well as those listed below, other symbols given in the 'Système International d'Unités' (SI) may be used where appropriate. The symbols 'mμ' (for nm) and 'γ' (for μg) are not used.

ampere	A	molar (concentration)	M
ångström	Å	neutrons per square centimetre	
atmosphere	atm	per second	n cm ⁻² s ⁻¹
atomic mass unit	a.m.u.	newton	N
coulomb	C	normal (concentration)	N
counts per minute	c.p.m.	ohm	Ω
curie	Ci	parts per U.S. billion (10 ⁹)	p.p.b.
disintegrations per minute	d.p.m.	parts per million	p.p.m.
electron-volt	eV	pascal	Pa
equivalent	equiv.	per cent. (vol. in vol.)	% (v/v)
farad	F	per cent. (wt. in vol.)	% (w/v)
gauss	G	per cent. (wt. in wt.)	% (w/w)
gram	g	pounds per square inch	p.s.i.
gram-molecule	mol	revolutions per minute	r.p.m.
hertz	Hz	roentgen	R
hour	h	second (time)	s
international unit	i.u.	siemens	S
joule	J	tesla	T
kelvin*	K	tonne (10 ⁶ g)	t
kilogram	kg	unit of pressure (mm Hg)	Torr
litre	l	volt	V
metre	m	watt	W
minute (time)	min	weber	Wb

* Temperatures given in degrees are on the Celsius scale unless otherwise indicated.

The following prefixes may be used in conjunction with the symbols—

Fraction	Prefix	Symbol	Multiple	Prefix	Symbol
10 ⁻¹	deci	d	10	deka	da
10 ⁻²	centi	c	10 ²	hecto	h
10 ⁻³	milli	m	10 ³	kilo	k
10 ⁻⁶	micro	μ	10 ⁶	mega	M
10 ⁻⁹	nano	n	10 ⁹	giga	G
10 ⁻¹²	pico	p	10 ¹²	tera	T
10 ⁻¹⁵	femto	f			
10 ⁻¹⁸	atto	a			

Abbreviations of journal titles used in the abstracts are those of the 'Chemical Abstracts Service Source Index' (American Chemical Society, Columbus, Ohio, U.S.A.). The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts may differ from that in the original articles and is that recommended by The International Union of Pure and Applied Chemistry ('Nomenclature of Organic Chemistry', Sections A and B, 3rd Edn, and Section C, 2nd Edn, Butterworths, London, 1971; 'Nomenclature of Inorganic Chemistry', Butterworths, London, 1971).

When known, the Colour Index (C.I.) designations of dyes are generally included. The names given to enzymes are those recommended by the International Union of Pure and Applied Chemistry and the International Union of Biochemistry ('Enzyme Nomenclature', Elsevier Scientific Publishing Co., Amsterdam, 1973). When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode Street, London, W1M 5FT). The principal Pharmacopoeias are denoted by, e.g., B.P., U.S.P. or Ph.Eur., together with the identifying roman numeral or year. Pesticides are named in accordance with the British Standard 1831:1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park Street, London, W1A 2BS).

System of Numbering Abstracts

The abstract designation consists of three parts (left to right):

(1) *Issue Number.* A number 1 to 6 corresponding to the monthly issue number in a given volume. (There are two volumes of six separate monthly issues each year.)

(2) *Section Letter.* Each subject section is indicated by a letter of the alphabet A to J (the letter I is avoided to prevent possible confusion).

(3) *Abstract Number.* An individual number of the abstract within its section. The numbers start with 1 in each section of each issue and run consecutively throughout the section.

ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 28, 1975

Abstract		
No.	Line	
3A11	1,2,3	for OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)-p-tolyl] phosphorodithioate read OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)benzyl] phosphorodithioate
5B121	2,3,4	for OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)-p-tolyl] phosphorodithioate read OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)benzyl] phosphorodithioate

Appropriate modifications should be made to the Subject Index to Vol. 28.

VOL. 29, 1975

Abstract		
No.	Line	
5J103	13	this line should read (For Part II see <i>Analyt. Abstr.</i> , 1975, 29, 4B193.)

VOL. 30, 1976

Abstract		
No.	Line	
5E38	3 4	for [bis(aniline)tetrakis(isothiocyanato)chromate] read [bis(aniline)tetrakis(thiocyanato)chromate]

VOL. 31, 1976

Abstract		
No.	Line	
3B133	3,4,5	for OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)-p-tolyl] phosphorodithioate read OO-bis-[α-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)benzyl] phosphorodithioate
4C37	8,9	for 2-acetoxyp propane-1,2,3-tricarboxylic acid read tributyl 2-acetoxyp propane-1,2,3-tricarboxylate

Appropriate modifications should be made to the Subject Index to Vol. 31.

VOL. 32, 1977

Abstract		
No.	Line	
6F28	5	for Hiecke, E. read Hieke, E.
5J43	7	for Chlorodimethylsilane read Dichlorodimethylsilane

Appropriate modifications should be made to the Author Index to Vol. 32.

VOL. 33, 1977

Abstract		
No.	Line	
1B11	9	for amanol read amyl
1B131	1	for ferrous read zinc-based
1B131	8,9	these lines should read each of Al and Cu, 0.9 to 1.5% of Ni, up to 0.15% of Ti and 0.2 to 0.35% of Fe, without preliminary
1D105	6	for oestrol read oestriol
1D162	8	for acryl read acyl
3B110	12	for [Bi(thiourea) ₄] [Cr(SCN) ₄ (amine) ₂] read [Bi(thiourea) ₄] [Cr(SCN) ₄ (amine) ₂] ₂
3C1	10	delete full stop after phases
3C73	4	for (43), -23 read (43), 1-23
3D130	22	for 5 β -cholic read 5 β -cholanolic
4B85	7	insert coated after PTFE
4B85	13	for \pm 5% read \pm 6%
4B121	11	delete) after Se ^{IV}
4B164	5	for 19GH read 19GD
4D26	16	for HN ₄ SCN read NH ₄ SCN
4D26	19	for or II read for II
4D35	23	for 3 μ g read 3 μ g
4E52	21	for ab. read aq.
4F25	2	for grain - potatofermented read grain - potato fermented
4H53	13	for Mn read Mg
5F9	10	for 254 or 256], read 254 or 256),
5D192	2	for creatinine read creatine
6D20	5	for 150-164 read 159-164
6D142	12	for N-(6-1-aminoheptyl)folamide read N-(6-aminoheptyl)folamide

SUBJECT INDEX

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- Alizarin red S. *Mordant Red 3*
- amaranth. *Food Red 9*
- auramine. *Basic Yellow 2*
- Basic magenta. *Basic Violet 14*
- butylrhodamine B. *Basic Violet 10 butyl ester*
- Capri blue GN. *No. 51015*
- Chrome Azurol S. *Mordant Blue 29*
- Coomassie blue. *Acid Blue 92*
- Coomassie Brilliant blue G250. *Acid Blue 90*
- Coomassie Brilliant blue R250. *Acid Blue 83*
- crystal violet. *Basic Violet 3*
- eosin. *Acid Red 87*
- Erio green. *Acid Green 9*
- Erio green B. *Acid Green 16*
- Eriochrome Azurol G. *Mordant Blue 47*

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 - Eriochrome cyanine. *Mordant Blue 3*
 - Eriochrome red B. *Mordant Red 7*
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 - methylene blue. *Basic Blue 9*
 - methylene green. *Basic Green 5*
 - nigrosine. *Acid Black 2*
 - Orange IV. *Acid Orange 5*
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 - phloxine. *Acid Red 92*
 - Ponceau S. *Acid Red 9*
 - Rhodamine B. *Basic Violet 10*
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 - Safranin T. *Basic Red 2*
 - Setoglaurine O. *Basic Blue 1*
 - Solochrome prune AS. *No. 51040*
 - Solochrome violet RS. *Mordant Violet 5*
 - Sudan black. *Solvent Black 3*
 - toluidine blue O. *Basic Blue 17*
 - Victoria Blue 4R. *Basic Blue 8*
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